

**Executive Summary:**

Project: Wireless Broadband to Guernsey County, Ohio

Ohio PC Solutions, Inc.  
750 Wheeling Ave.  
Cambridge, OH 43725

This project will provide broadband access to 100 percent of Guernsey County, Ohio via Motorola Wi4 wireless equipment. Within the city limits of Cambridge and Byesville and on main routes, broadband access is available either by Verizon (or other phone companies) DSL or Time Warner (or other cable companies) cable; however, there are thousands of people whose only access is expensive cell phone cards or satellite broadband.

Ohio PC Solutions, Inc., with the help of Rowe Networks, will install Motorola Point-to-Multipoint (PMP) equipment throughout Guernsey County which will provide residential and business customers with high speed broadband access. Each customer will be required to use a secure Subscriber Module (SM) to gain access to these PMP devices. The SM modules will be installed by Ohio PC Solutions, Inc. at the location wanting broadband access.

To connect each PMP device to one another and back to Ohio PC Solutions, Inc. where the backbone internet connection will be located, a Point-to-Point (PTP) device will be installed. Each of these devices can handle between 25Mbps and 300Mbps depending on the model.

The wireless equipment operates between 900 and 5.4GHz. While the equipment has the ability to operate at the 4.9GHz public safety frequency, it is not part of this project to include those services. At a later date, once the infrastructure has been established, Ohio PC Solutions, Inc. will consult with local public safety agencies on enabling this feature.

The goal of Ohio PC Solutions, Inc. is to provide all residents and business of Guernsey County, Ohio with the ability to have broadband access. Ohio PC Solutions, Inc. will not deny any resident or business the ability to use our broadband solution provided said user can cover the monthly expenses to operate said solution. As of the 2000 census, there are 40,792 people and 16,092 households in Guernsey County. Guernsey County covers 528 square miles. There are over 200 businesses in Guernsey County that will have access to this broadband solution.

The total cost of the project to provide 100 percent of the equipment to cover all of Guernsey County and provide equipment to half of the residential households and half of the businesses within Guernsey County, Ohio would be \$[REDACTED]. Out of that figure, \$[REDACTED] is the infrastructure cost while the remaining is the cost to install the receiving end at the residential or business customer's site.

The primary goal of Ohio PC Solutions, Inc. is to allow all residents and business to have affordable broadband access. There will be different tiers of service for both residential and

business customers. Residential customers will have a minimum downstream service of 768K with an upstream of 256K starting at \$[REDACTED] per month.

The residential service will also provide a 1.5Mbps/1.5Mbps and 3Mbps/3Mbps (downstream/upstream) services for \$[REDACTED] and \$[REDACTED] per month respectively.

Business customers will have the options of 1Mbps/1Mbps, 3Mbps/3Mbps, and 7Mbps/7Mbps (within Cambridge City limits) for \$[REDACTED], \$[REDACTED], and \$[REDACTED] per month respectively.

In addition to broadband access, a community site will be created for all who are part of this broadband to share information. Offsite file backup services will be offered for both residents and businesses. The backup services will provide a place for residents and businesses to backup their critical files in the event of server or computer failure at the customer site. Website and Email hosting will also be provided to residential and business customers. After the infrastructure is implemented, Voice-over-IP (VOIP) services will be offered.

Ohio PC Solutions, Inc. currently provides computer sales and service for residential customers. Ohio PC Solutions, Inc. has extensive knowledge on consumer products and solutions. In addition to providing services to residential consumers, we also provide solutions for businesses. These services include setting up secure server environments with automated updates to both Windows and Antivirus solutions.

Two of the three owners have worked in Fortune 500 companies to implement and maintain a global infrastructure. Ohio PC Solutions, Inc. has the knowledge and experience to implement a wireless solution using Microsoft Server 2008 operating systems with Active Directory, DHCP, and DNS as the secure backend to provide said services. We have also rewired businesses using fiber optics and CAT5e/CAT6 cabling with 3com and Cisco switches and routers.

Ohio PC Solutions, Inc. is using the experience and knowledge of Rowe Networks to spec out and implement the Motorola Wireless network to provide the connectivity to customers.

Within the first year of operations, Ohio PC Solutions, Inc. expects to have [REDACTED] businesses and [REDACTED] residential customers. After the second year, and fully implemented project, that number will double. Within five years, Ohio PC Solutions projects that there will be [REDACTED] [REDACTED] and [REDACTED] residential customers. These numbers are based on the amount of households being roughly 16,000 households. Within ten years, Ohio PC Solutions, Inc. expect to host over half of the households on the broadband access via aggressive pricing and providing top-class services that other ISPs do not offer.

Ohio PC Solutions, Inc. will need to create two full time jobs paying a minimum of \$[REDACTED] per year to install and manage the Motorola wireless infrastructure. Another two jobs paying \$[REDACTED] per year will be created in order to install the Subscriber Modules at customer sites. The two part time employees currently working at Ohio PC Solutions, Inc. would be moved to full time to manage and run the computer store front and repair services.

Regardless of whether the grant is rewarded, Ohio PC Solution, Inc. intends to provide wireless broadband for the residents and business of Guernsey County. With the grant, Ohio PC Solutions, Inc., could implement the project within two years. Without the grant, it would take Ohio PC Solutions, Inc. approximately [REDACTED] years to obtain the capital to fund this project.